

ABSTRACT OF THE DISCLOSURE

SYNCHRONOUS DYNAMIC REGISTER UPDATING  
ACROSS A DISTRIBUTED SYSTEM

A switch for a network. The switch comprises a memory mechanism in which portions of packets are stored. The switch comprises a mechanism for instituting changes to the memory mechanism while the memory mechanism continuously operating on packets. A method for switching packets. The method comprises the steps of receiving changes for a memory mechanism of a switch at a buffer of the switch. Then there is the step of implementing the changes to the memory mechanism when the memory mechanism receives an implementation signal while the memory mechanism continuously operates on packets.